Purchase Order Receipt Listing

Wednesday, February 22, 2017 2:00:04 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO35299 Receipt Dates from 2/22/2017 to 2/22/2017 All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

Book Amt	\$986.75		\$121.77		\$151.04	\$510.92		\$365.17	46.2916 0.0000 0.0000
MRB Qty/ MRB Reject Qty	0	0	0	0	0 0	0	0	0 0	antity: · U/M): antity:
Inspected Qty/ Rejected Qty (PO U/M)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Total Received Quantity: Total Qty to Inspect (PO U/M): Total Reject Quantity:
Cost Per Unit/ Recv Value	\$41.11	\$986.75	\$30.60	\$121.77	\$30.60	\$65.50	\$510.92	\$65.50	T Total (
Reev Qty (PO U/M)	(24.0000		3.9800		4.9366	7.8000		5.5750	
Recv Date/ Recv Emp	2/22/2017	PLOU01	2/22/2017	PLOU01	2/22/2017 PLOU01	2/22/2017	PLOU01	2/22/2017 PLOU01	
Required Date Required Qty	2/27/2017	24.0000	2/21/2017	8.9166	2/21/2017	2/21/2017	13.3750	2/21/2017	
Reference/ PO U/M / Description/ Stock U/M Cert Std	OP001 Thyssenkrupp Materials CA Ltd M6061T6B1.000X16. f	6061-T6 Bar 1.00 x f 16.00 m136899	M7075T6B6.000X1.0 f 00	7075-T6 BAR 6.000" f X 1.000" m136899		M7075T6B7.000X2.0 f 00	7075-T6 BAR 7.000" f X 2.000" (order in billets - 13.375") m136899		
Project ID Reference/ Description Cert Std	VC-COP001 / M6061 000	6061-T6 16.00 m136899	M707 00	7075-T61 X 1.000" m136899		M707 00	7075-T6 X 2.000" billets - 1 m136899		
Line Pro Nbr/ Insp Req	dor Name	°Z	9	Š		4	N _o		
Purchase Order ID/ Curr Type	VendorID\Vendor Name PO35299 1	CAD							

Total Receipt Value: Total Balance Due Quantity:

0.0000 \$2,135.66

BILL OF LADING No: PEC 31608 Ship Date 17Feb17 at 11:38 From PFW Ship From: THYSSENKRUPP MATERIALS NA Probill 2821 LANGSTAFF ROAD Via VIM DELIVERY CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 FOB CONCORD Frt PREPAID Route 0- 0 Manifest Vhcle Trailer STAN IVERS (905-532-1350) Slp (1) Ship To: Sold To: (20115) DART AEROSPACE DART AEROSPACE 1270 ABERDEEN ST 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7 HAWKESBURY, ON K6A 1K7 Tel: 613-632-9577 Fax: 613-632-1053 BILL OF LADING 1) Our Order PEC- 18051- 1 Your PO # 35299 ALUMINUM FLT BAR ECONOPLT 6061-T6511 1.00" X 16.00" X 144.0000" Heat Number Quantity PCS Tag No Wt LBS 22730458 620038 /24 FT 465 Tags LBS

TOTAL:

***** SHIP WITH 17992 *****

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL 1 BDL GW. 540 LBS

CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA CONCORD, ONT. *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

SPH-82-22

465

No: PEC 31608 BILL OF LADING Ship Date 17Feb17 at 11:38 From PFW Probill THYSSENKRUPP MATERIALS NA Via VIM DELIVERY 2821 LANGSTAFF ROAD FOB CONCORD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 Frt PREPAID 0- 0 Manifest Route Trailer Vhcle

Slp

1) Ship To: DART AEROSPACE

Ship From:

Sold To: (20115) DART AEROSPACE

STAN IVERS (905-532-1350)

102-20

OF LADING BILL

ADDED TO EVERY ORDER. ***

***UNE SURCHARGE D'ENERGIE DE \$25.00 SERA AJOUTEE A CHAQUE COMMANDE. ***

***POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

DATE



17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB Invoice To Customer

P.O. BOX 5116 ATTN: ACCOUNTS PAYABLE COPPER & BRASS SALES INC

SOUTHFIELD, MI - 48086

8001 THYSSENKRUPP PARKWAY COPPER & BRASS SALES INC

NORTHWOOD, OH - 43619

0 1

1101181140 Sales No. 8 SALES S	Customer P/O Cert Creation Date	SAPA2596509 Page	Cert Number Page
06-FEB-17	Cert Print Date	Page 1 of 2	Page

Item Description ACC-U-LINE Extraded ACC-U- PLATE 1.000 TK x 16.000 W TK TOL +.038/000 W TOL +208/000 SECT 515175 144 NLLN FIN M-MILL W/F 19.298 F 2 CS 16.1
Item Description ACC-U-LINE Extraded ACC-U-LINE PLATE 1.000 TK x 16.00 TK TOL +.038/0 W TOL +.208/0 W TOL +.208/0 SECT 515175 144 IN LN FIN M.MILL W/F 19.298 F 2 C

ons, Revisions and Exceptions

ACC-U-PLATE

Acc-U-Plate(TM) product greater than 0.375" thick in 6061 T6/T6511 alloy temper meets 6061-T6511 this less trength, yield strength, and elongation minimums of rolled plate produced per AMS-QQ-A-250/11.a

nd ASTM B 209.

this certified inspection report. Remainder is Aluminum. COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on

egal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including anyspecifications forming a part of the description and that samples representative of the material met the composition andhad the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminantin alluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certificationis not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title

Mike Hammer

Cressona Plant Manager

06-FEB-17

Quantities per Lot / Packages

Composition Limits	012-PK0290/911	G12-PKG290/901	012-FN0290/889	C10 hw Conoring	Package Number
	22730458	22730458	22730458		Lot Number
	7	7	6		Quantily
	PCS	PCS	PCS		МОП
	1627	1627	1396	Gross	Weigh
	1621	1621	1390	Net	



Certified

1101181140

1101181140 Line No. 8	Sales Order Number		Certified Inspection Report
5400337199-80	Customer P/O		ort
06-FEB-17	Cert Creation Dute	SAPA2596509	Cert Number
06-FEB-17	Cert Print Date	Page 2 of 2	Page

Alloy				ê	_	5	7	•	¥	FE .	0	5	2	2
	Min	Max	Min	Max	Min	Мах	Min	Мах	Min	Мах	Min	Max	Min	3 3 5
6061	0.40	0.80	1	0.70	0.15	0.40	1	0.15	0.80	1.20	0.04	0.35	1	
Alloy			Other	Others Each	Other	Others Total		Control of the Contro						1
	Min	Мах	Min	Max	Min	Max								
6061	-	0.15	***	0.05	i	0.15								

Max 0.25

Composition Results

0.71
0.22
0.21
0.02
0.88
0.05
0.02
0.02
Others Each
Others Loun

T6511S8	Test Temper			
22730458	Lot Number			
-	# of Tests	# of Test	мол	Test Type
44.3	MIN Value		KSI	UTS-L
44.3	MAX Value		IS	-L
42.5	MIN Value MAX Value MIN Value MAX Value MIN Value MAX Value		KSI	TYS-L
42.5	MAX Value		IS	-L
143	MIN Value		P	EL 41
14.3	MAX Value		PCT	EL 4D-Long

Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method

All mill finish alloys produced at Sapa Industrial Extrusions comply with Directive 2011/65/EU (RollS 2) with the exception of 6262 alloy

In accordance with EN 10204 Inspection Certificate Type 3.1

Melted in the USA or "Qualifying Countries" (as defined in Defense Federal Acquisition Regulation Supplement (DFARS) Section 225.872-1)

Manufactured in the United States

BILL OF LADING

Snip From:

THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD

CONCORD ONTARIO 14K FC6

CONCORD, ONTARIO L4K 5C6 FOB CONCORD Tel: 905 669 9444 Fax: 905-738-9033 Frt PREPAID

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Tel: 613-632-9577 Fax: 613-632-1053

Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

BILL OF LADING 1) Our Order PEC- 18168- 1 Your PO/# 35299 ALUMINUM PLATE 7075-T651 DOMESTIC 1.00" THICK X 6.0000" X 95.6250" PCS Wt LBS Heat Number Tag No Quantity 9350450 619984 3.98 SFT 2) Our Order PEC- 18168- 2 Your PO # 35299 ALUMINUM PLATE 7075-T651 DOMESTIC 2.00" THICK X 7.0000" X 13.3750" -* GRAIN DIRECTION TOWARD 13.375 INCH DIM **** Heat Number Tag No Quantity Wt LBS 9366153 7.80 SFT V 12 247 620031 Tags PCS LBS TOTAL: 305 13

Heat Number 9350450 9366153

*** Chemical Analysis ***

**** ADD ON TO 18051/17992 SUR-CHARGE ADDED ****

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

Page: 1Continued

ALUMINIUM - LAITON - CUIVRE - PLASTIQUE - ACIER INOX

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

LADING PEC 31622 BILL OF No: Ship Date 17Feb17 at 11:50 From PFW THYSSENKRUPP MATERIALS NA Probill 2821 LANGSTAFF ROAD Via VIM DELIVERY FOB CONCORD

CONCORD, ONTARIO L4K 5C6 Frt PREPAID Tel: 905 669 9444 Fax: 905-738-9033 0- 0 Manifest Route

Trailer Vhcle STAN IVERS (905-532-1350) Slp

Sold To: (20115) DART AEROSPACE

Ship To: DART AEROSPACE

Ship From:

OF LADING BILL

TOTAL 2 SKIDS GW. 344 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA 9:00 AM TO 4:00 PM *** CONCORD, ONT.*

**** TEL. 800-926-2600 ****

*************** WE STOCK STAINLESS STEEL

PLEASE LET US QUOTE YOUR NEXT REQUIREMENT ****************

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE ADDED TO EVERY ORDER. ***

***UNE SURCHARGE D'ENERGIE DE \$25.00 SERA AJOUTEE A CHAQUE COMMANDE. ***

***POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001 DATE

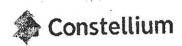
HYSŠENKRUPP MATERIALS NA

ALUMINUM PLATE 7075-T651 DOMESTIC 1.00" THICK X 6.0000" X 95.6250" PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-031622-001 Signed by: Pg 1/2





CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

s H P

0

ALEQY

7075

THYSSENKRUPP CA 2821 LANGSTAFF ROAD

CONCORD ON L4K 5C6

3 0 L D T 0 THYSSENKRUPP CA 2821 LANGSTAFF ROAD CONCORD ON L4K 5C6

PECKOVERS

110443237

4075

INCLUSION

182317

Serial:20160721-0110443237

Pg 1of2

CUSTOMER PURCHASE ORDER NO. & ITEM PEC-276877

T651)

TEMPER GAUGE

WIDTH 60.50000 in 1.03000 in 26.16 mm 1,537 mm

LENGTH 144,50000 in 3,670 mm

Constellium ORDER NO.

ITEM ORDERED SPEC PLATE, SAWED MILL FINISH

CLAD

CUSTOMER SPECIFICATION AMS QQ-A-250/12A

PART NUMBER

B/L NUMBER 64636

DATE SHIPPED 07/22/2016

1960.000 LB

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination. Constellium Rolled Products Ravenswood, LLC 859 Century Road

P.O. BOX 68 RAVENSWOOD, WV 26164 USA

WT. SHIPPED

NO. OF PIECES

GOYT, CONTRACT NO.

Stave Good - Laboratory Manager

Parent Lot

Fig. -- -- -- (0/)

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

AMS 4045K ASTM B209-14

Piece

01

03

Serial

Load Details

Kg Lot Net Lbs Package 444.520 9350450 980.000 1001305386 9350450 444.520 980.000 1001305386

Lot: 9350450

Tensile - Room Temperature (US)

Elongation (%) Yield (KSI) Ultimate (KSI) Max Min Min Max Min Max Tests Direction 11.5 12.5 74.4 72.3 82.2 84.2 02 LT

Tensile - Room Temperature (SI)

		Ultima	te (N/MM2)	Yield	(N/MM2)	Elong	ation (%)
Direction	Tests	Min	Max	Min	Max	Min	Max
Direction				498	513	11.5	12.5
LT	02	567	581	480	313	1110	

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLATE 7075-T651 DOMESTIC 1.00" THICK X 6.0000" X 95.6250" PART NO.

PO/Rel 3529

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-031622-001 17Feb17 Pg 2/2





CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

S THYSSENKRUPP CA
H 2821 LANGSTAFF ROAD
CONCORD ON
L4K 5C6
CA

THYSSENKRUPP CA

2821 LANGSTAFF ROAD
CONCORD ON
L4K 5C6
CA

0.01

0.02

Signed by:

0 Serial:20160721-0110443237 Pg 2of2 INCLUSION 4075 110443237 PECKOVERS Constellium ORDER NO. CERTIFICATION CUSTOMER PURCHASE ORDER NO. & ITEM *Constellium Rolled Products, hereby certifies that 182317 PEC-276877 metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as LENGTH WIDTH TEMPER GAUGE CLAD ALLOY 144.50000 in indicated herein. Any warranty is limited to that 60.50000 in 1.03000 in T651 7075 shown on Constellium Rolled Products' standard 1.537 mm 3,670 mm 26.16 mm General Terms and Conditions of Sales. Test reports are on file, subject to examination." ITEM ORDERED Constellium Rolled Products Ravenswood, LLC SPEC PLATE, SAWED MILL FINISH 859 Century Road P.O. BOX 68 CUSTOMER SPECIFICATION RAVENSWOOD, WV 26164 USA AMS QQ-A-250/12A DATE SHIPPED B/L NUMBER PART NUMBER 07/22/2016 64636 GOVT. CONTRACT NO. NO. OF PIECES WT. SHIPPED 000002 1960.000 LB Stave Good - Laboratory Manager Chemistry (Actual) CR ZN TI ZR MG MN FE CU

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

0.17 1.45

0.06

Core

0.05

2.47

0.20

5.68

All material contained in this lot was cast and manufactured in the USA

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557

DUNS Number: 090570149; CAGE Code: 1YWL9

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

HYSSENKRUPP MATERIALS NA

ALUMINUM PLATE 7075-T651 DOMESTIC 2.00" THICK X 7.0000" X 13.3750" PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-031622-002

Pg 1/4

Signed by:





CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

THYSSENKRUPP CA

2821 LANGSTAFF ROAD CONCORD ON L4K 5C6

0

L D

T 0 THYSSENKRUPP CA 2821 LANGSTAFF ROAD CONCORD ON L4K 5C6

CA

PECKOVERS

H

P

0

ALLOY 7075

110453355

4075

INCLUSION

Serial:20160831-0110453355

Pa 1of4

CUSTOMER PURCHASE ORDER NO. & ITEM

181307

Constellium ORDER NO.

PEC-276627

TEMPER GAUGE 2.03000 in 51.56 mm T651)

WIDTH 60.50000 in 1.537 mm

LENGTH 144.50000 in 3,670 mm

ITEM ORDERED SPEC PLATE, SAWED

CLAD

MILL FINISH CUSTOMER SPECIFICATION AMS QQ-A-250/12A

PART NUMBER

BIL NUMBER 66628

DATE SHIPPED 08/31/2016

WT. SHIPPED 9305.000 LB

NO. OF PIECES 000005

GOVT, CONTRACT NO.

CERTIFICATION

*Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road

P.O. BOX 68 RAVENSWOOD, WV 26164 USA

Steve Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

AMS 4045K ASTM B209-14

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001322314	1,855.000	841.413	9349077	01		
1001322314	1,855.000	841.413	9349077	02		
1001322315	1,855.000	841.413	9349077	03		
1001335644	1,870,000	848.217	9366153	03		
1001335646	1 870 000	848.217	9366154	03		

Lot: 9349077

Tensile - Room Temperature (US)

	Ultimat	e (KSI)	Yleid	(1/21)	Elonga	ation (%)
Tests		Max	Min	Max	Min	Max
-		81.4	70.3	71.1	13.0	13.5
	Tests 02	Tests Min	Teste Anni	Tests Min Max Min	Tests Min Max Min Max	Tests Min Max Min Max Min

Tensile - Room Temperature (SI)

- KOOIII I BIII	peracure (or		te (N/MM2)	Yield	(N/MM2)	Elong	ation (%)
Direction	Tests	Min	Max	Min	Max	Min	Max
LT	02	556	561	485	490	13	13.5

HYSSENKRUPP MATERIALS NA

ALUMINUM PLATE 7075-T651 DOMESTIC 2.00" THICK X 7.0000" X 13.3750" PART NO.

PECKOVERS

4075

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

Pg 20f4

(

BL PEC-031622-002 17Feb17 Pg 2/4 Signed by:





CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

THYSSENKRUPP CA S H 2821 LANGSTAFF ROAD CONCORD ON P L4K 5C6 CA 0

5 0 D L4K 5C6 CA T 0

Serial:20160831-0110453355

THYSSENKRUPP CA 2821 LANGSTAFF ROAD CONCORD ON

Constellium ORDER NO. CUSTOMER PURCHASE ORDER NO. & ITEM 181307 PEC-276627 TEMPER GAUGE T651 2.03000 WIDTH ALLOY CLAD 2.03000 in 7075 51.56 mm 1,537 mm ITEM ORDERED SPEC PLATE, SAWED

110453355

LENGTH 60.50000 in 144.50000 in 3,670 mm

INCLUSION

MILL FINISH CUSTOMER SPECIFICATION

AMS QQ-A-250/12A

PART NUMBER B/L NUMBER 66628

DATE SHIPPED 08/31/2016

GOVT. CONTRACT NO. WT. SHIPPED NO. OF PIECES 9305.000 LB 000005

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road

P.O. BOX 68 RAVENSWOOD, WV 26164 USA

FE CU MN 0.16 1.48 0.05 MG CR 2.59 0.21

TI 5.55 0.02

DAS 14 ZR 0.009-89

Steve Good - Laboratory Manager

Chemistry (Actual)

Core

0.06

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

Lot: 9366153

Tensile - Room Temperature (US)

	Ultimate (KSI) Yield (KSI)					Elongation (%)		
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	82.2	82.2	71.9	72.2	13.0	13.5	

Tensile - Room Temperature (SI)

Ultimate (N/MM2)				Yield	(N/MM2)	Elongation (%)		
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	567	567	496	498	13.0	13.5	

HYSSENKRUPP MATERIALS NA

ALUMINUM PLATE 7075-T651 DOMESTIC 2.00" THICK X 7.0000" X 13.3750' PART NO.

furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-031622-002

Pg 3of4

Pg 3/4





CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

H

0

ALLOY

7075

PECKOVERS

THYSSENKRUPP CA 2821 LANGSTAFF ROAD CONCORD ON

110453355

L4K 5C6

4075

S 0 D T 0

THYSSENKRUPP CA 2821 LANGSTAFF ROAD CONCORD ON L4K 5C6 CA

CUSTOMER PURCHASE ORDER NO. & ITEM PEC-276627

CLAD

ITEM ORDERED

SPEC PLATE, SAWED MILL FINISH

Constellium ORDER NO.

181307

INCLUSION

LENGTH WIDTH

TEMPER GAUGE 2.03000 in 51.56 mm T651

60.50000 in 1,537 mm

metal shipped under this order has been 144.50000 in 3,670 mm

Serial:20160831-0110453355

Signed by:

inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road

CERTIFICATION

Constellium Rolled Products, hereby certifies that

P.O. BOX 68 RAVENSWOOD, WV 26164 USA

CUSTOMER SPECIFICATION AMS QQ-A-250/12A

PART NUMBER B/L NUMBER 66628

DATE SHIPPED 08/31/2016

WT. SHIPPED 9305.000 LB

NO. OF PIECES 000005

GOVT. CONTRACT NO.

Steve Good - Laboratory Manager

Chemistry (Actual)

Core

FE CU MN MG CR ZN TI ZR 0.00 0.05 0.13 1.54 0.09 2.64 0.19 5.63 0.02

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

Lot: 9366154

Tensile - Room Temperature (US)

		Ultimal	(KSI)	Elong	ation (%)		
Direction	Tests	Min	Max	Min	Max	Min	Max
LT	02	82.6	83.1	72.5	72.9	13.5	13.5

Tensile - Room Temperature (SI)

Ultimate (N/MM2)				Yield	(N/MM2)	Elongation (%)		
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	570	573	500	503	13.5	13.5	

THYSSENKRUPP MATERIALS NA

ALUMINUM PLATE 7075-T651 DOMESTIC 2.00" THICK X 7.0000" X 13.3750" PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-031622-002

Pg 40f4

Signed by:

Pg 4/4





CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

THYSSENKRUPP CA \$ Н 2821 LANGSTAFF ROAD CONCORD ON L4K 5C6

0 L D T 0

THYSSENKRUPP CA 2821 LANGSTAFF ROAD CONCORD ON L4K 5C6 CA

0 INCLUSION Serial:20160831-0110453355 PECKOVERS 110453355 4075 Constellium ORDER NO. CUSTOMER PURCHASE ORDER NO. & ITEM 181307 PEC-276627 ALLOY LENGTH CLAD TEMPER GAUGE 60.50000 in 144.50000 in 7075 2.03000 in T651 51.56 mm 3,670 mm 1.537 mm ITEM ORDERED SPEC PLATE, SAWED MILL FINISH **CUSTOMER SPECIFICATION** AMS QQ-A-250/12A PART NUMBER B/L NUMBER DATE SHIPPED 08/31/2016 NO. OF PIECES GOVT. CONTRACT NO. WT. SHIPPED 9305,000 LB 000005

CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road

P.O. BOX 68 RAVENSWOOD, WV 26164 USA

Steve Good - Laboratory Manager

Chemistry (Actual)

Core

FE CU MN 0.05 0.13 1.54 0.09

MG

CR 2.64 0.19 ZN 5.63 0.02

TI

ZR 0.00

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399 WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8: B557

DUNS Number: 090570149: CAGE Code: 1YWL9

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MOCE			
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	24	1	THICKNESS ORDERED: /. 037 SHEET SIZE ORDERED: NA SHEET SIZE RECEIVED: NA
DESCRIPTION	NC (Ch	eck	COMMENTS
SURFACE DAMAGE		N	
CORRECT FINISH	(Y)	N	
CORROSION	- Water	(1)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(8)	Z	8 ASTM B 221
CORRECT THICKNESS	B	Ν	1.037
PHOTO REQUIRED	Υ	(3)	
CORRECT MATERIAL	(X)	Ν	6061 Te
CORRECT REF # TO LINK CERT	(Y)	Ν	Hect # 22730458
CORRECT MATERIAL IDENTFICATION	Y	N	MLEONETTEBO. 1000X16-000
CORRECT M# ON THE MATERIAL	X	N	M 136899
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(Z)	
CUT SAMPLE PIECE			TERIAL AND PREFORM A HARDNESS CHECK. DRD RESULTS BELOW
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER REA	וחוח	G	HRC HRB DUR A DUR D
HARDNESS / DUROMETER REA			located in the Quality Office
QC 18 INSPECTION DAS			ENGINEERING SIGNOFF (if required)
INSPECTED BY: 9.89	1		SIGNED OFF BY:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M707	25	Tb	B4.000X	1.000	PO / BATCH NO	35299/	B489
DATE: 171	00	1/2	4				
MATERIAL CERT REC'D:QUANTITY RECEIVED:QUANTITY INSPECTED:QUANTITY REJECTED:	1	8.		THICKN SHEET	IESS ORDERED. IESS RECEIVED: SIZE ORDERED: SIZE RECEIVED:	1.110	
DESCRIPTION	N	CR neck			COMMENTS		
SURFACE DAMAGE	Y,	(N)					
CORRECT FINISH	1	N					
CORROSION	Y	0					
CORRECT GRAIN DIRECTION	B	N					
CORRECT MATERIAL	18	N	7075	76			
CORRECT THICKNESS	M	N	1.110				
PHOTO REQUIRED	8	N					
CORRECT MATERIAL	0	0	AMS-	QQ-4-	250/124		
CORRECT REF # TO LINK CERT	(1)	Ν	HEAT-	# 935	0450		
ORRECT MATERIAL IDENTFICATION	(8)	N	4707	5160	6.000X1.0)UD	
CORRECT M# ON THE MATERIAL	(A)	N	41368	99			
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	0					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(2)		. 111			
CUT SAMPLE PIECE			FERIAL AND F ORD RESULT		HARDNESS C		
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING			HRC	HRB	DUR A	DUR D	-
HARDINESS / DUROWETER REA			located in the Q	uality Office			
C 49 INCRECTION		sters	Tocated in the S		ENGINEERING	SIGNOFF (if	required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:

DATE:

14

QC 18 INSPECTION

INSPECTED BY:

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M707	57	4E	7.00X2.	06 P	O / BATCH NO.	35299/	13489
DATE: 17/		10	24				
MATERIAL CERT REC'D:	R	1			ESS ORDERED		2
QUANTITY RECEIVED	7	4	39 B.375	THICKNE	SS RECEIVED	2:100	
QUANTITY INSPECTED:		8	9 13375	SHEETS	IZE ORDERED		
QUANTITY REJECTED:				SHEETS	IZE RECEIVED:		
QUANTITY RESERVED.							
	10						
		CR			COMMENTO		
DESCRIPTION	4.	neck		(COMMENTS		
		(N)					
SURFACE DAMAGE	Y	10					
CORRECT FINISH	(8)	N					
CORROSION	Y	0					
CORRECT GRAIN DIRECTION	0	N	20-70-5	-/			
CORRECT MATERIAL	8	N	70757	0			
CORRECT THICKNESS	()	N	2-100				
PHOTO REQUIRED	Y	ON	41/0	,	Sentin		
CORRECT MATERIAL	0	N	445-6	10-4-	25012		
CORRECT REF # TO LINK CERT	(8)	N	HEATH	= 436	6/53	100	
CORRECT MATERIAL IDENTFICATION	(4)	N	197075	7615	+,00X2	.00	
CORRECT M# ON THE MATERIAL	8	Ν	M13689	9			
DOES THIS MATERIAL REQUIRE							
ENGINEERING SIGN OFF	Y	(N)					
DOES THIS REQUIRE AN		P (
EXTRUSION REPORT	Υ	(N)					
				======================================	LIADDNESS C	HECK	
CUT SAMPLE PIECE					HARDNESS C	HECK.	
	F	RECO	ORD RESULTS		T DUD A	DUR D	Τ
			HRC	HRB	DUR A	טאטע	
TYPE OF MATERIAL		Ì					1
SIZE OF TEST SAMPLE					-		1
HARDNESS / DUROMETER REA							
	te	esters	located in the Qua	ity Office			

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9-09	SIGNED OFF BY:
DATE:	17/02/24	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35299

Purchase Order Date 2/13/2017 PO Print Date 2/13/2017

Page Number 1 of 5

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

FEB 1 4 2017

Contact Name

Vendor Phone

Ship To Contact

905 669 9444

Buyer

Chantal Lavoie

Customer POID Customer Tax#

10127-2607

Terms

FOB

Net 30 CAD

Currency

FCA - (Free Carrier)

Ship To Phone

VENDOR'S TRUCK Ship Via:

Ship Acct:

Line Reference Nbr Vendor Part Number **Line Comments**

Mfg ID

Description/

Req Date/ CD Taxable **Promise Date**

Req Qty/ Unit of Measure

Extended Price

Delivery Comments

6061-T6 Bar 1.00 x 16.00

24.00

\$53.50

PO Unit Price

\$1,284.00

M6061T6B1.000X16.000

2/27/2017 Yes

2/27/2017

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

Line Total:

1-68-3

\$1,284.00

M7075T6B1.500X1.500

7075 T6 BAR 1.500 x

2/21/2017

12.04

\$24.25

f

\$292.00

1.500

2/21/2017

Yes

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

Line Total:

\$292.00

PO Instructions: PEC ST-17091, PEC ST-16560

Note:



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35299

Purchase Order Date 2/13/2017 PO Print Date 2/13/2017

Page Number 2 of 5

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

905 669 9444

Customer POID

Customer Tax #

Buyer

Terms

10127-2607

Chantal Lavoie

Ship To Contact

Ship Via: Ship Acct:

3

Ship To Phone

Currency FOB

Net 30 CAD

FCA - (Free Carrier)

7075-T6 BAR 6.000" X

2/21/2017

M7075T6B6.000X1.000

1.000"

Yes

2/21/2017

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

VENDOR'S TRUCK

\$39.81

\$355.00

M7075T6B7.000X2.000

7075-T6 BAR 7.000" X 2.000" (order in billets -13.375")

2/21/2017

Yes

2/21/2017

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: CUT 12 PCS AT 13.375", GRAIN DIRECTION ALONG 13.375"

Line Total:

\$355.00

\$85.23

\$1,140.00

-03-33

Line Total:

\$1,140.00

PO Instructions: PEC ST-17091, PEC ST-16560

Note:



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35299

Purchase Order Date 2/13/2017 PO Print Date 2/13/2017

Page Number 3 of 5

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

905 669 9444

Ship To Contact

Ship To Phone

Ship Via:

VENDOR'S TRUCK

Ship Acct:

2/17/2017 6061-T6 Bar .500 x 5.00

2/17/2017

M6061T6B0.500X05.000

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

M6061T6B0.750X00.750

6061-T6 Bar .750 x .750

2/21/2017 Yes

2/21/2017

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

M6061T6B1.000X02.000

6061-T6 Bar 1.00 x 2.00

2/17/2017

Yes

2/17/2017

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

PO Instructions: PEC ST-17091, PEC ST-16560

Note:

Buyer **Customer POID**

Customer Tax#

Terms Currency

FOB

Chantal Lavoie

10127-2607 Net 30

CAD

FCA - (Free Carrier)

12.00

12.00

12.00

\$9.00

\$108.00

Line Total:

\$108.00

\$4.58

\$55.00

Line Total:

\$90.00

\$7.50

\$55.00



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35299

Purchase Order Date 2/13/2017 PO Print Date 2/13/2017

Page Number 4 of 5

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"

CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

TORONTO, ON M5W 5V8

Vendor Phone

905 669 9444

Buyer **Customer POID** Chantal Lavoie 10127-2607

Ship To Contact

Ship To Phone Ship Via:

VENDOR'S TRUCK

Customer Tax# Terms Currency

CAD

Net 30

FOB

FCA - (Free Carrier)

Ship Acct:

M6061T6B1.500X01.250

2/21/2017 6061-T6 Bar 1.50 x 1.25

Yes

2/21/2017

12.00

Line Total:

\$90.00

\$6.50

\$78.00

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

71401-45

2/21/2017 procurement quality clauses

No

2/21/2017

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retension of quality documents

1.00

Line Total:

\$78.00

\$0.00

\$0.00

Line Total:

\$0.00

PO Instructions: PEC ST-17091, PEC ST-16560

Note:



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35299

Purchase Order Date 2/13/2017 PO Print Date 2/13/2017

Page Number 5 of 5

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Ship Acct: 905 669 9444

VENDOR'S TRUCK

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607 Net 30

Terms Currency

CAD

FOB

FCA - (Free Carrier)

PO Total:

\$3,402.00

PO Instructions: PEC ST-17091, PEC ST-16560

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

2

Change Date:

2/13/2017